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Sheet 1

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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of 6

Complete if Known				
Application Number	10/584,672			
Filing Date	June 26, 2006			
First Named Inventor	Yusuke KONAGAI et al.			
Art Unit .				
Examiner Name				
Attorney Docket Number	YAMA:130			

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant
		Number-Kind Code ^{2 (# known)}			Figures Appear
/DP/	Α	^{US-} 5,233,664	08-03-1993	YANAGAWA et al.	
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Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T°
/DP/	В	JP 5-41897 A	02-19-1993	YANAGAWA et al.	Engl. Abstract	
1	С	JP 2000-184448 A	06-30-2000	KOURA et al.	Engl. Abstract	
	D	JP 2003-510924 A	03-18-2003	HOOLEY et al.	see cite E	
•	Ε	WO 01/23104 A2	04-05-2001	HOOLEY et al.		
1/	F	JP 6-209500 A	07-26-1994	KAKU	Engl. Abstract	
V	G	JP 2004-350173 A	09-12-2004	NAKAYAMA et al.	Engl. Abstract	

Examiner Signature	/Disler Paul/	Date Considered	09/07/2007

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Complete if Known Substitute for form 1449/PTO **Application Number** 10/584,672 June 26, 2006 Filing Date INFORMATION DISCLOSURE Yusuke KONAGAI et al. First Named Inventor STATEMENT BY APPLICANT Art Unit (Use as many sheets as necessary) **Examiner Name YAMA:130** Sheet 2 Attorney Docket Number of 6

U. S. PATENT DOCUMENTS					
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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T
/DP/	Н	JP 2004-363697 A	12-24-2004	KONAGAI	Engl. Abstract	
	l	JP 2004-172661 A	06-17-2004	ASADA et al.	Engl. Abstract	
	J	JP 2004-531125 A	10-07-2004	TROUGHTON et al	see cite K	
	K	WO 02/078388 A2	10-03-2002	TROUGHTON et al		
1/	L	JP 2003-23689 A	01-24-2003	HARUYAMA et al.	Engl. Abstract	
V	М	JP.6-225379 A	08-12-1994	FURUTA et al.	Engl. Abstract	

Examiner Signature	/Disler Paul/		Date Considered	09/07/2007

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Substitute for form 1449/PTO		Complete if Known		
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	ATION DISCLOSURE	First Named Inventor	Yusuke KONAGAI et al.	
STATEM	ENT BY APPLICANT	Art Unit		
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U. S. PATENT DOCUMENTS					
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/DP/	N	JP 2004-193698 A	07-08-2004	ITABASHI et al.	Engl. Abstract	
	0	JP 9-233591 A	09-05-1997	SASAKI et al.	Engl. Abstract	
	Р	JP 2002-345077 A	11-29-2002	ISHIMARU et al.	Engl. Abstract	
	Q	JP 5-276591 A	10-22-1993	TANAKA et al.	Engl. Abstract	
\/	R	JP 6-62488 A	03-04-1994	CHIYOU	Engl. Abstract	
_	S	JP 6-261385 A	09-16-1994	FURUTA et al.	Engl. Abstract	

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Sheet 4

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Complete II Known				
Application Number	10/584,672			
Filing Date	June 26, 2006			
First Named Inventor	Yusuke KONAGAI et al.			
Art Unit				
Examiner Name				
Attorney Docket Number	YAMA:130			

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/DP/	T	JP 2004-172703 A	06-17-2004	ASADA et al.	Engl. Abstract	
	U	JP 2004-336530 A	11-25-2004	USUI et al.	Engl. Abstract	
	V	JP 6-269096 A	09-22-1994	NISHIKAWA	Engl. Abstract	
	W	JP 2005-12765 A	01-13-2005	KONAGAI	Engl. Abstract	
\/	X	JP 2005-80079 A	03-24-2005	MIURA et al.	Engl. Abstract	
V	Υ	JP 2005-27020 A	01-27-2005	ISONO	Engl. Abstract	

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Sheet 5

Application Number 10/584,672 June 26, 2006 Filing Date Yusuke KONAGAI et al. First Named Inventor Art Unit **Examiner Name YAMA:130 Attorney Docket Number**

U. S. PATENT DOCUMENTS Pages, Columns, Lines, Where Name of Patentee or Publication Date **Document Number** Cite Examiner Relevant Passages or Relevant **Applicant of Cited Document** MM-DD-YYYY No.1 Initials* Figures Appear Number-Kind Code² (F known) US-US-US-US-US-US-US-US-US-US-US-US-US-US-US-US-US-US-US-

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/DP/	Z	GB 2 273 848 A	06-29-1994	ZHANG	see cite R	
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